

## 06 - ELECTRICAL- ILLUMINATION

### INDEX OF DRAWINGS

[illegible]

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ILLUMINATION NOTES:

- 1) THE CONTRACTOR SHALL CARRY OUT THE ELECTRICAL WORK IN SUCH A MANNER THAT THERE IS NO DISRUPTION IN THE PROPER NIGHTTIME OPERATION OF THE HIGHWAY LIGHTING CIRCUIT. PRIOR TO THE DISCONNECTION OF THE EXISTING LIGHTING CIRCUIT, THE CONTRACTOR SHALL INSTALL THE NEW RMC IN THE SHOULDER, CONNECT TO THE EXISTING CONCRETE HANDHOLES, AND INSTALL THE NEW CONDUCTORS AS SHOWN. THE CONTRACTOR SHALL ONLY DISCONNECT THE EXISTING CONDUCTORS WHEN THE NEW CONDUCTORS HAVE BEEN INSTALLED AND READIED FOR FINAL CONNECTION. ALL CIRCUIT CONNECTIONS SHALL BE CARRIED OUT DURING DAYLIGHT HOURS.
- 2) EXISTING CIRCUITS ARE 480 VOLT, THREE PHASE, 3 WIRE. THE LIGHTING CONTROL CABINET IS LOCATED ON JUNE STREET IN EAST HARTFORD.
- 3) CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW AND RATED FOR 600 VOLTS. INSULATION SHALL BE COLORED CROSS LINKED POLYETHELENE (XLP). THREE PHASE CIRCUIT COLORS SHALL BE AS FOLLOWS: BLUE, BLACK, RED.
- 4) INSTALL ONE NUMBER 8 BARE COPPER GROUNDING CONDUCTOR THROUGHOUT ALL LIGHTING CIRCUITS.
- 5) FOR EXISTING ILLUMINATION SEE STATE PROJECT 42-196.
- 6) THE CONTRACTOR SHALL CONTACT MR. AUGUSTO GRAZUNA OF DISTRICT 1 ELECTRICAL MAINTENANCE AT 860-566-3156 WHEN ACCESS TO THE LIGHTING CABINET IS REQUIRED. THE CONTRACTOR SHALL ABIDE BY THE CONNDOT LOCKOUT/TAGOUT PROCEDURES.
- 7) ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CONNECTICUT STANDARD SPECIFICATIONS, AND WHERE APPLICABLE, UTILITY COMPANY REGULATIONS.
- 8) TAPE ALL UNUSED CONDUCTORS.
- 9) CIRCUIT CONNECTIONS/SPLICES SHALL BE PAID FOR UNDER THE ITEM(S) FOR CONDUCTORS.

HIGHWAY LIGHTING SYSTEM CIRCUIT BYPASS:  
INSTALL 2 1/2" RMC UNDER ROADWAY  
BETWEEN EXISTING HANDHOLES WITH  
3 #2, 1 #8 BARE GROUND. LOCATE  
CONDUIT IN PAVED SHOULDER 5' FROM  
EDGE OF PAVEMENT. SEE RMC UNDER  
ROADWAY DETAIL

EXISTING CONCRETE  
HANDHOLE TO REMAIN  
(TYPICAL)

EXISTING RMC UNDER ROADWAY  
WITH ABANDONED CABLE - TO  
REMAIN

EXISTING UNDERGROUND  
CABLE IN DUCT (3 #2,  
1 #8 BARE GROUND) TO  
REMAIN (TYPICAL)

EXISTING HIGH MAST LIGHT  
POLE TO REMAIN (TYPICAL)

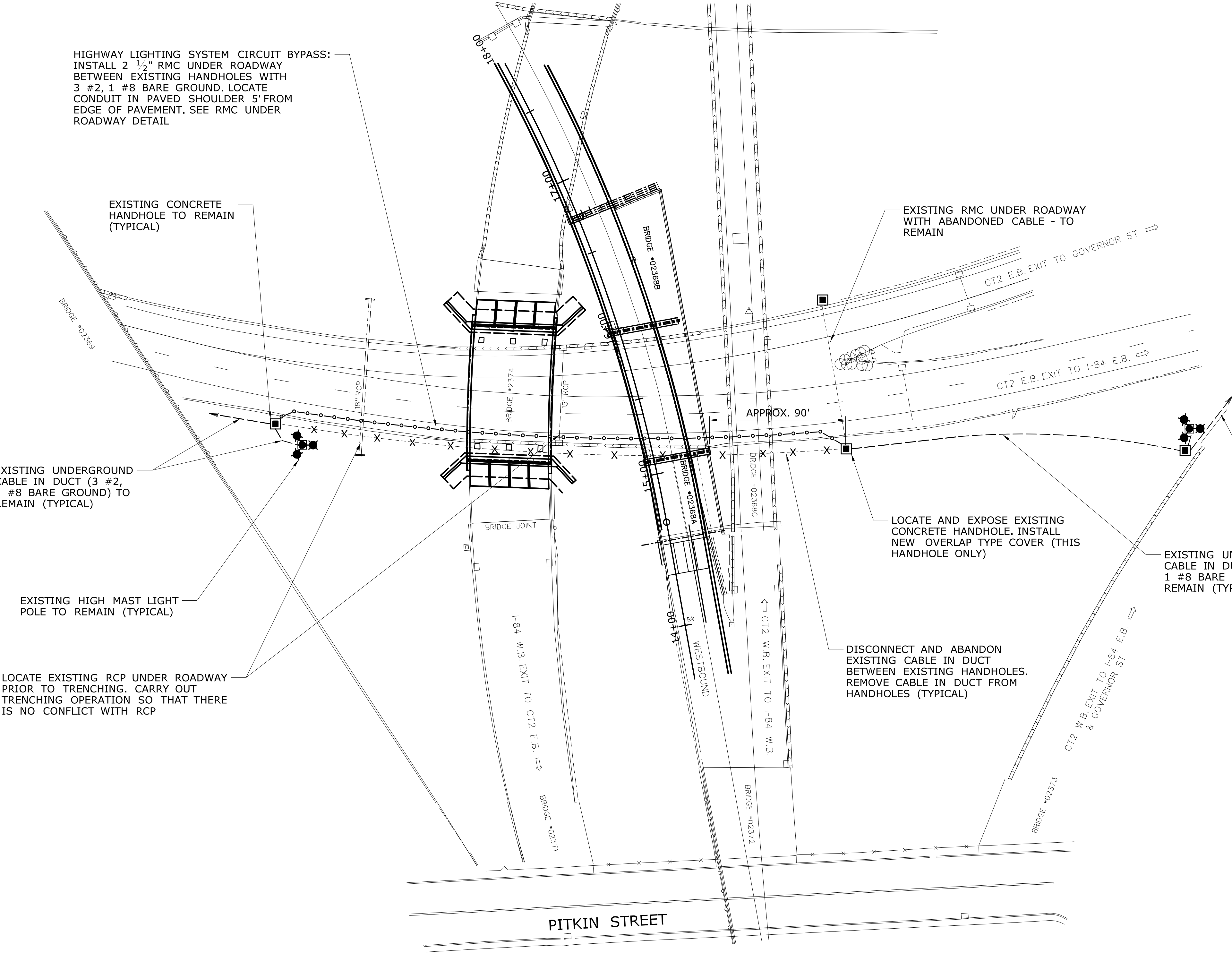
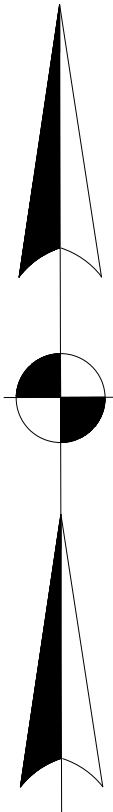
LOCATE EXISTING RCP UNDER ROADWAY  
PRIOR TO TRENCHING. CARRY OUT  
TRENCHING OPERATION SO THAT THERE  
IS NO CONFLICT WITH RCP

LOCATE AND EXPOSE EXISTING  
CONCRETE HANDHOLE. INSTALL  
NEW OVERLAP TYPE COVER (THIS  
HANDHOLE ONLY)

DISCONNECT AND ABANDON  
EXISTING CABLE IN DUCT  
BETWEEN EXISTING HANDHOLES.  
REMOVE CABLE IN DUCT FROM  
HANDHOLES (TYPICAL)

EXISTING CIRCUIT NO. 2  
FROM JUNE STREET  
LIGHTING CONTOL  
CABINET (480V, 3 PHASE,  
3 WIRE)

EXISTING UNDERGROUND  
CABLE IN DUCT (3 #2,  
1 #8 BARE GROUND) TO  
REMAIN (TYPICAL)

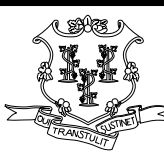



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED  
QUANTITIES OF WORK, SHOWN ON THESE  
SHEETS IS BASED ON LIMITED  
INVESTIGATIONS BY THE STATE AND IS  
IN NO WAY WARRANTED TO INDICATE  
THE CONDITIONS OF ACTUAL QUANTITIES  
OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/14/2014

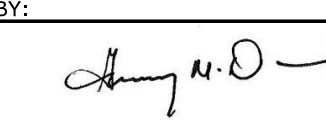
DESIGNER/DRAFTER: <b>MSB</b>
CHECKED BY: <b>JA</b>
SCALE IN FEET 0 40 80 SCALE 1"=40'

**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION**



Filename: ...\\Elec\\\_eng\_data\\ILL-01.dgn

SIGNATURE/  
BLOCK:  
**OFFICE OF ENGINEERING**

APPROVED BY:  


PROJECT TITLE:  
**REPLACEMENT OF BRIDGE  
NO. 02374 SR 500 TR 805  
OVER I-84 TR 831 & TR 833**

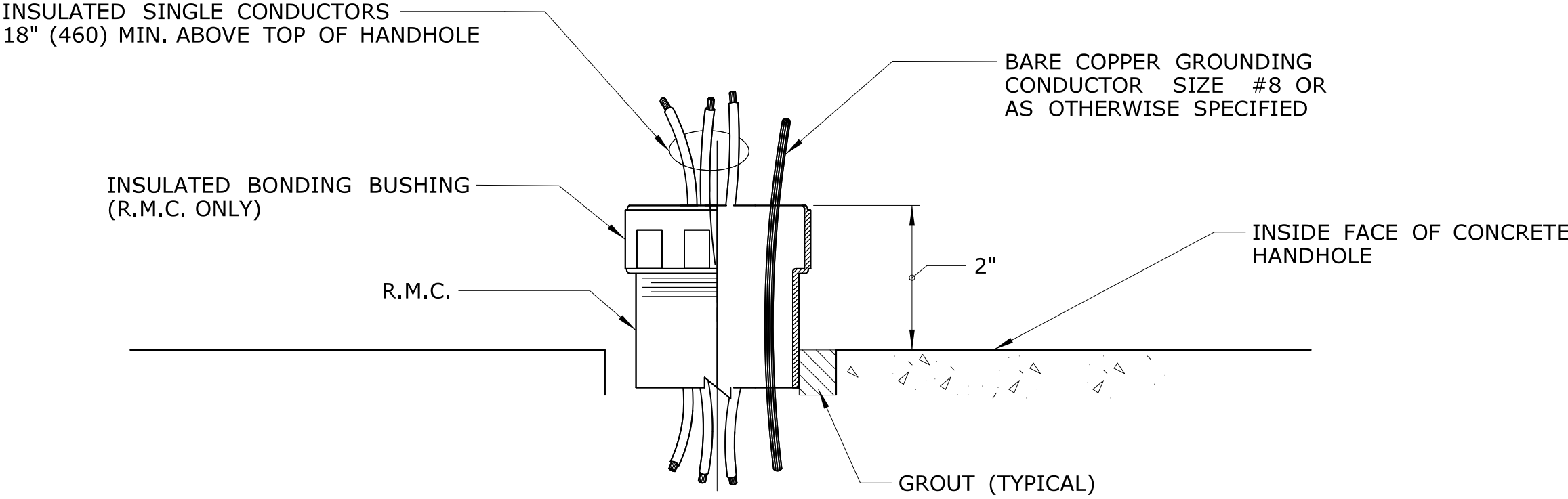
TOWN:  
**EAST HARTFORD**

DRAWING TITLE:  
**ILLUMINATION**

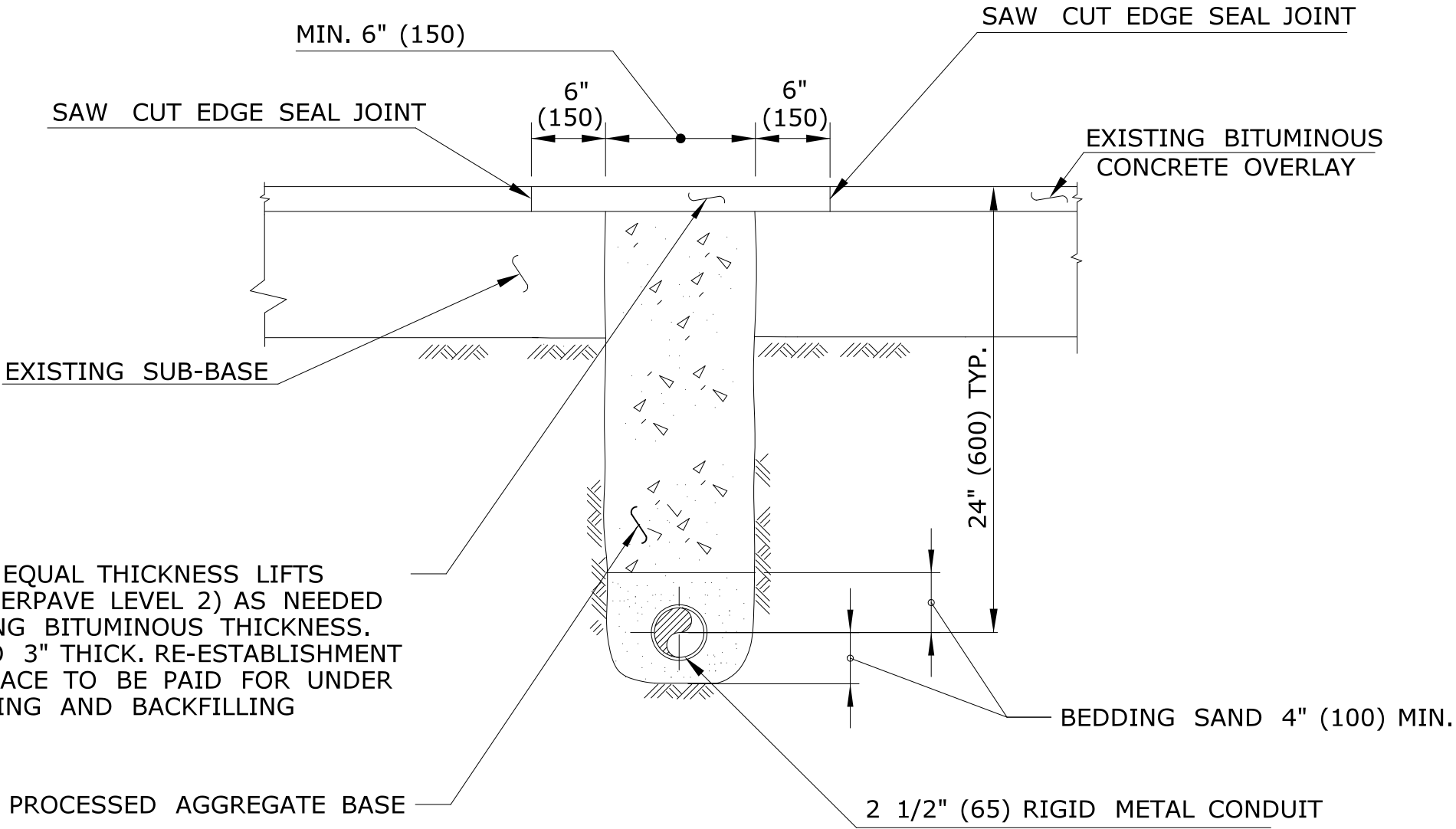
PROJECT NO.  
**042-304**

DRAWING NO.  
**ILL-02**

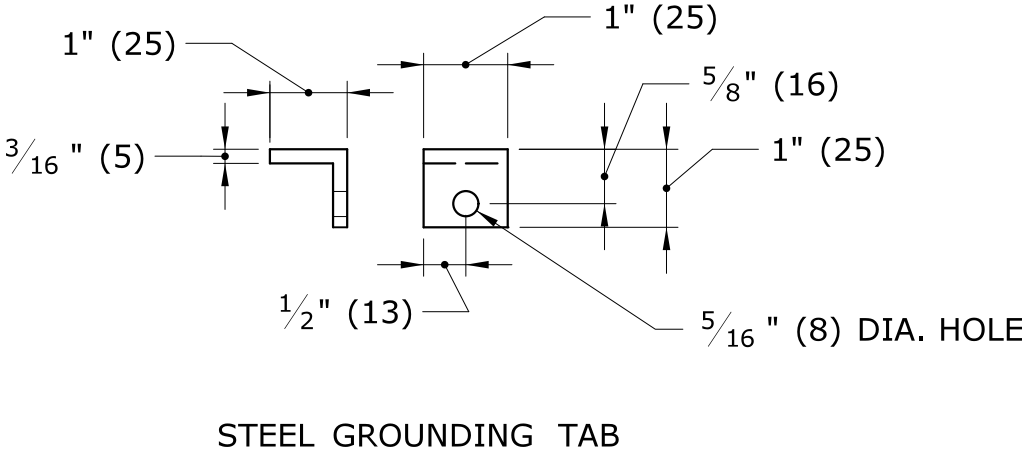
SHEET NO.  
**01.06.02**



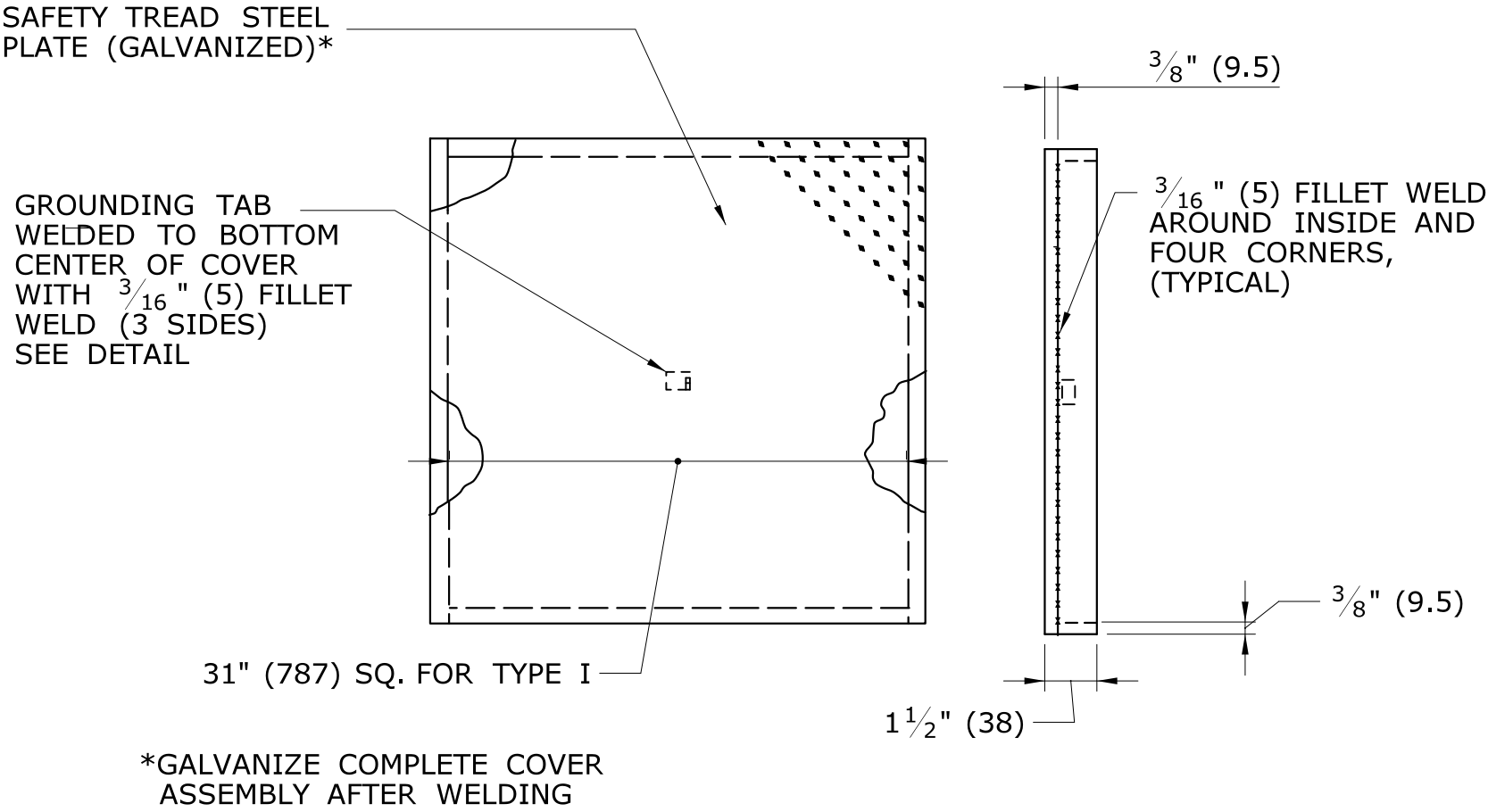
CONDUIT TERMINATION AT HANDHOLE



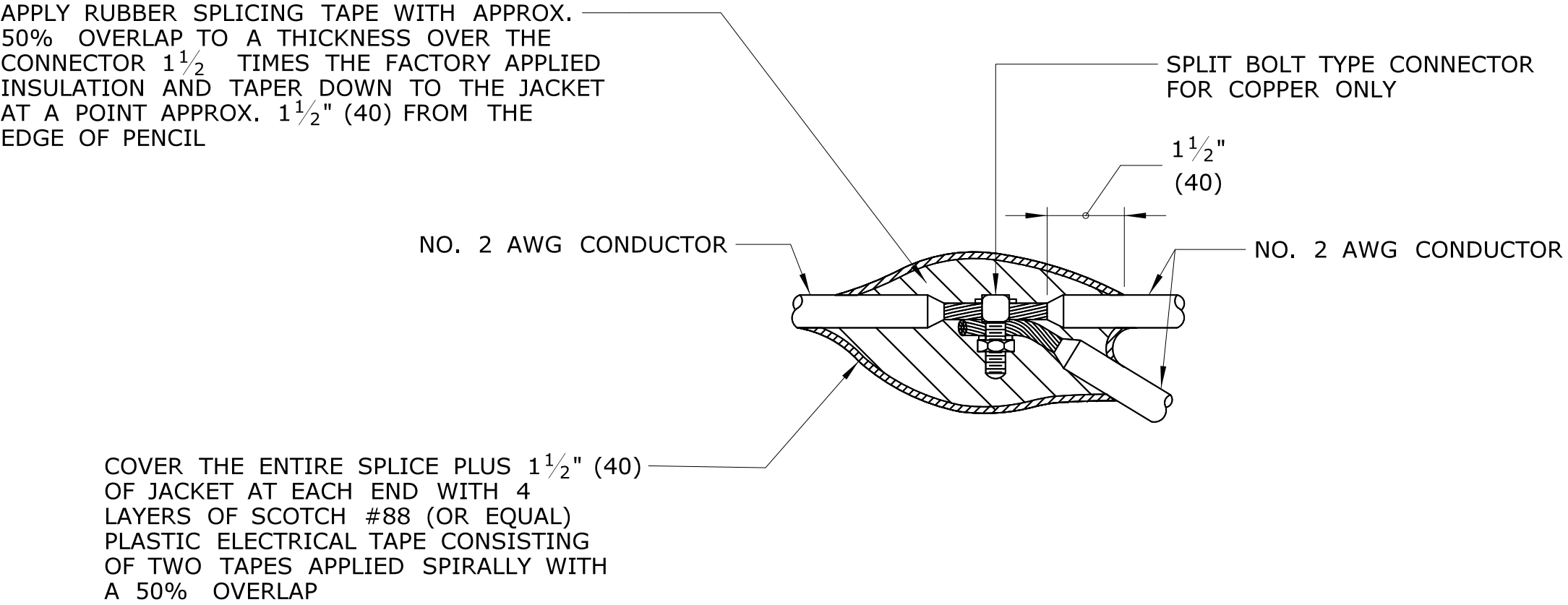
R.M.C. UNDER ROADWAY



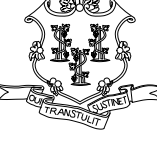
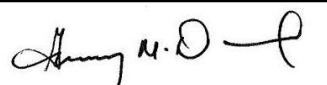
NOTE:  
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4" (M6) x 3/4" (20) LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

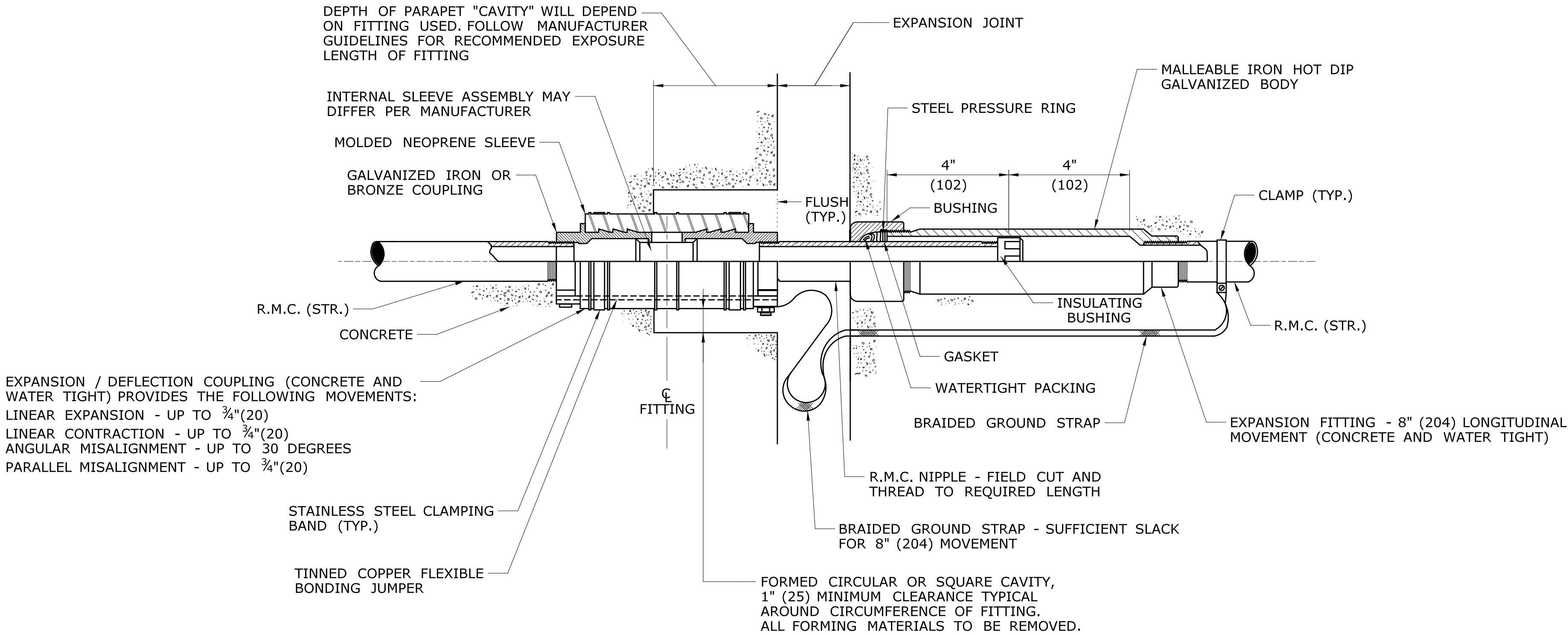


GALVANIZED STEEL HANDHOLE COVER

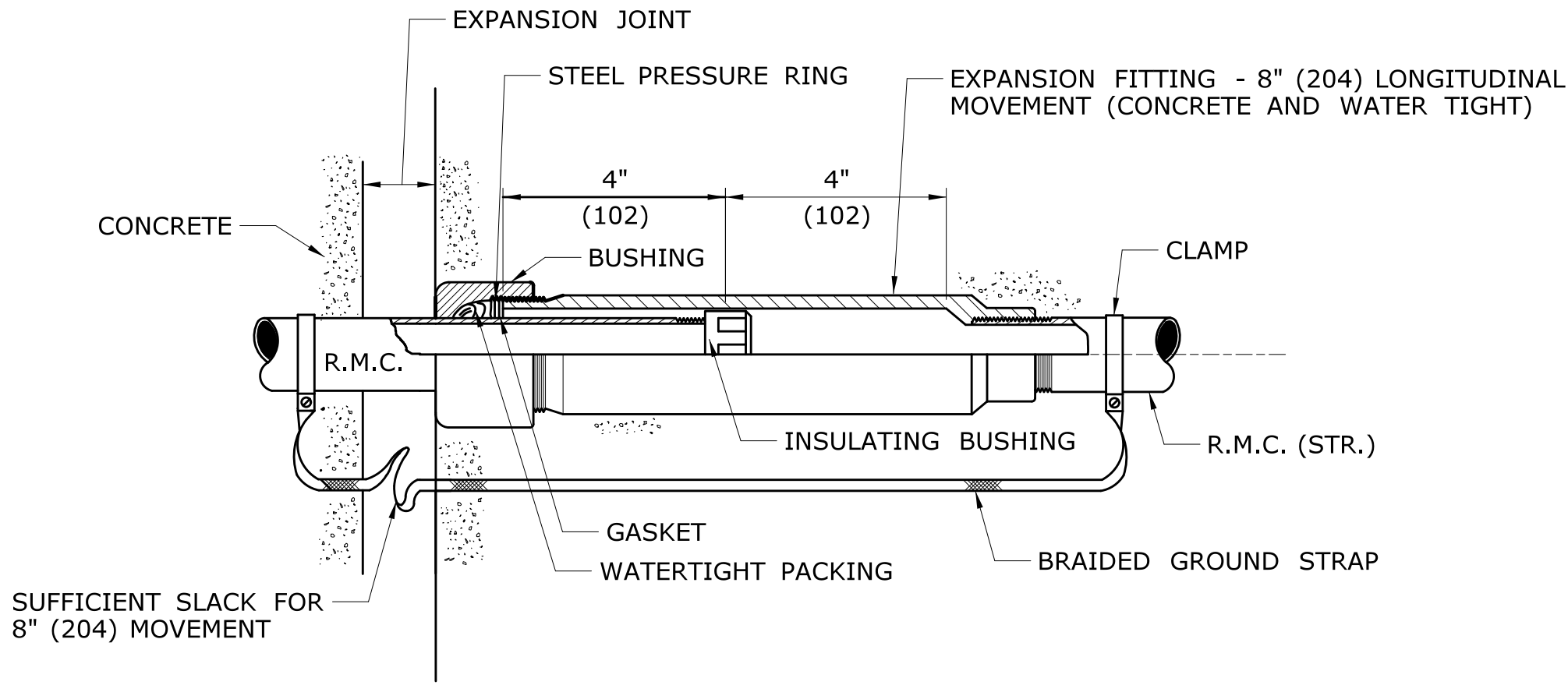


CABLE SPLICE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/14/2014	DESIGNER/DRAFTER: <b>MSB</b> CHECKED BY: <b>JA</b> <b>NO SCALE</b>	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> Filename: ...\\Elec\\_eng_data\\ILL-02.dgn	SIGNATURE/ BLOCK: <b>OFFICE OF ENGINEERING</b> APPROVED BY:  ISSUE DATE: 6/6/14	PROJECT TITLE: <b>REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 &amp; TR 833</b>	TOWN: <b>EAST HARTFORD</b> DRAWING TITLE: <b>ELECTRICAL DETAILS</b>	PROJECT NO. <b>042-304</b> DRAWING NO. <b>ILL-03</b> SHEET NO. <b>01.06.03</b>
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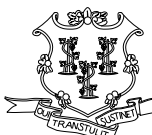
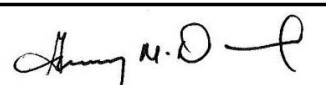
**EXPANSION FITTING TYPE 2**

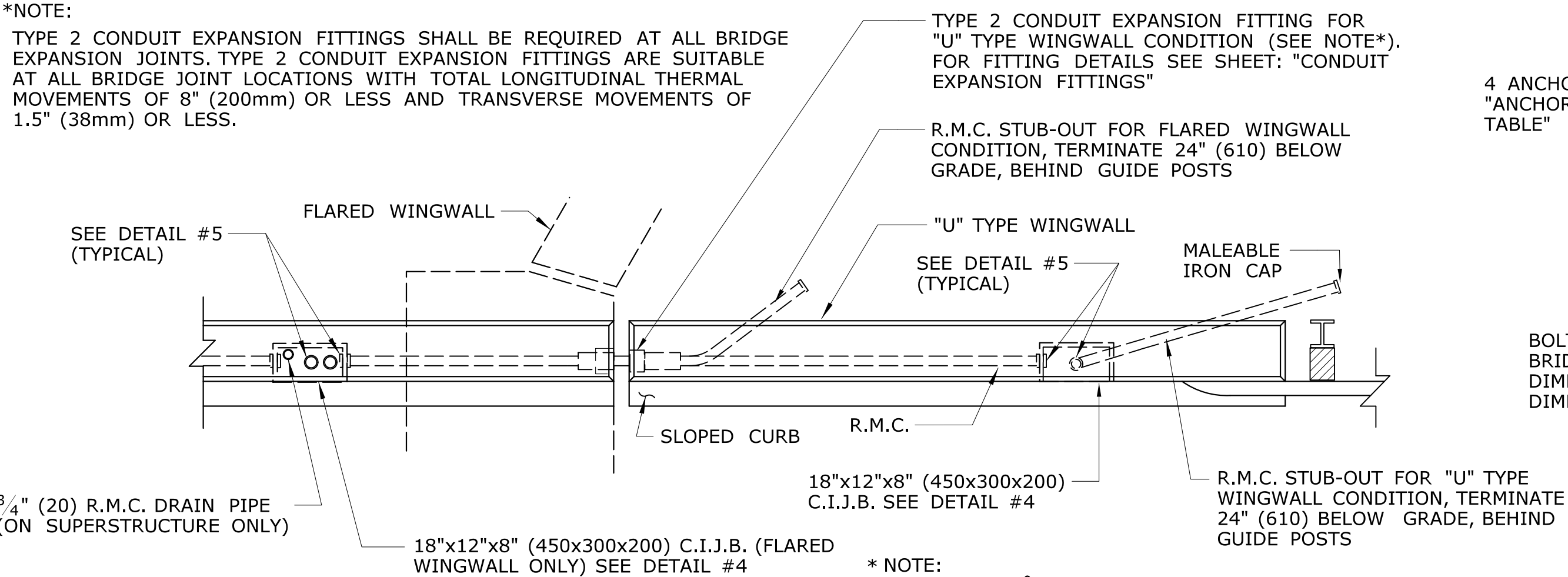


**EXPANSION FITTING TYPE 1**

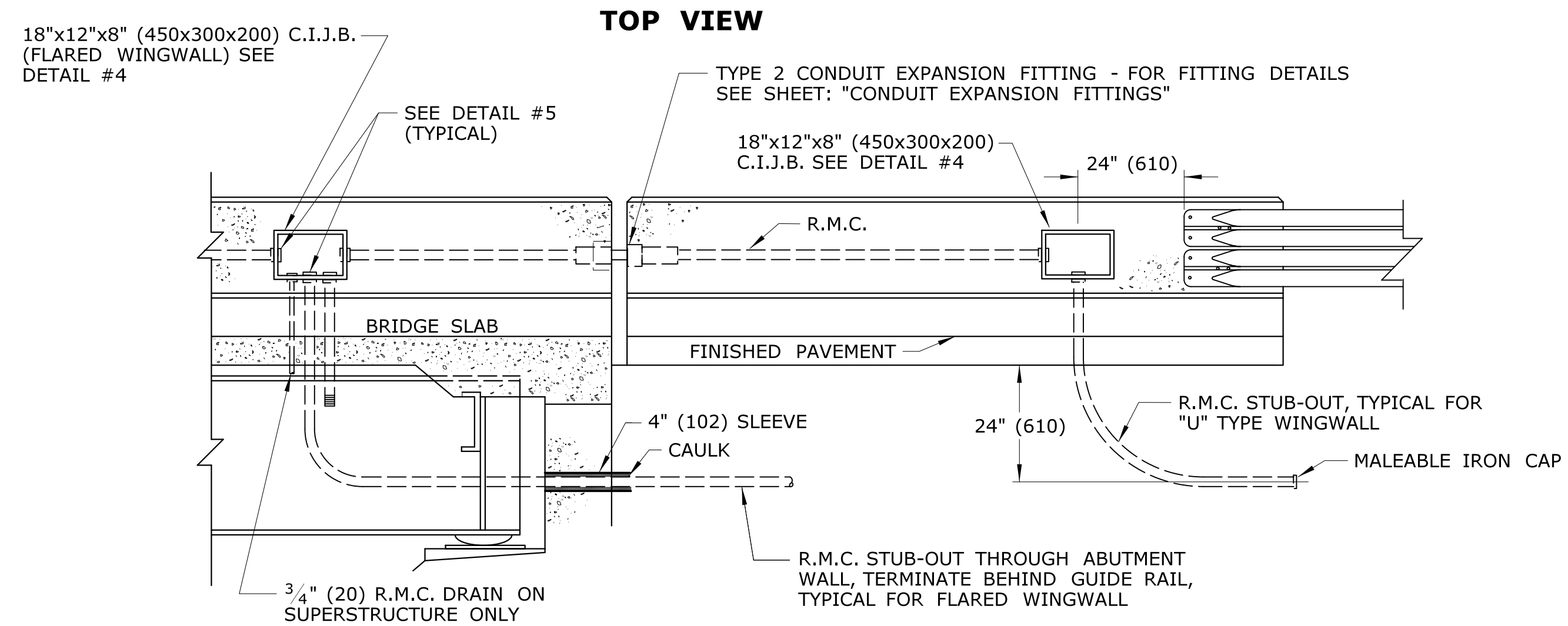
**NOTES:**

- 1) TYPE 1 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE CONCRETE RETAINING WALLS SHARING COMMON PILE SUPPORTED FOOTINGS.
- 2) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL BRIDGE EXPANSION JOINTS. TYPE 2 CONDUIT EXPANSION FITTINGS ARE SUITABLE AT ALL BRIDGE JOINT LOCATIONS WITH TOTAL LONGITUDINAL THERMAL MOVEMENTS OF 8" (200mm) OR LESS AND TRANSVERSE MOVEMENTS OF 1.5" (38mm) OR LESS.
- 3) TYPE 2 CONDUIT EXPANSION FITTINGS SHALL BE REQUIRED AT ALL EXPANSION JOINT LOCATIONS IN CAST-IN-PLACE RETAINING WALLS WHERE THE FOUNDATION TRANSITIONS FROM A PILE SUPPORTED FOUNDATION TO A SPREAD FOOTING FOUNDATION.
- 4) ORIENTATION OF CONDUIT EXPANSION FITTING SHALL BE FIELD DETERMINED.

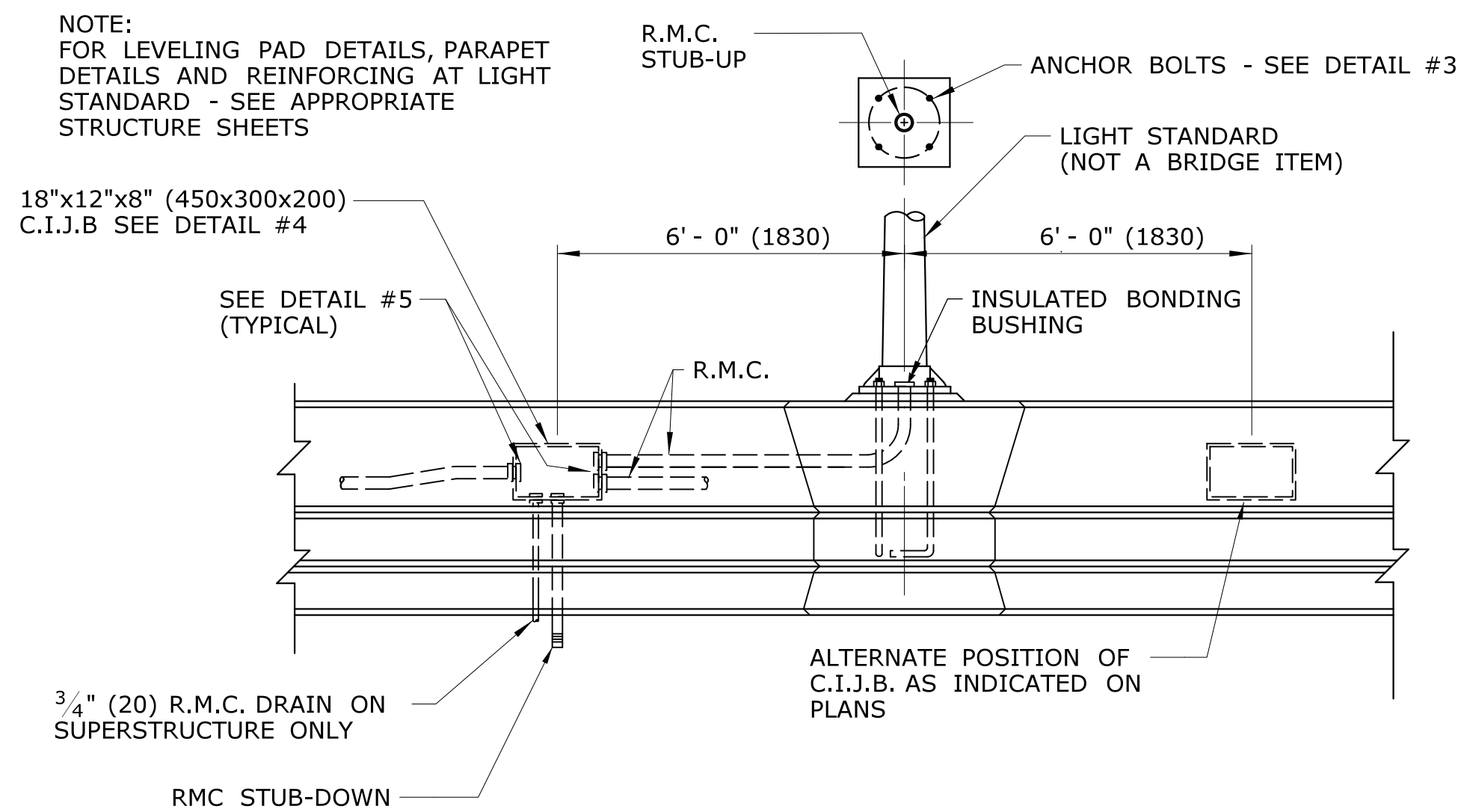
				THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: <b>MSB</b>		 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK: <b>OFFICE OF ENGINEERING</b>		PROJECT TITLE: <b>REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 &amp; TR 833</b>	TOWN: <b>EAST HARTFORD</b>	PROJECT NO. <b>042-304</b>	
						CHECKED BY: <b>JA</b>			APPROVED BY:				DRAWING TITLE: <b>CONDUIT EXPANSION FITTINGS</b>	DRAWING NO. <b>ILL-04</b>
						NO SCALE			ISSUE DATE: 6/6/14 					SHEET NO. <b>01.06.04</b>
REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 11/14/2014		Filename: ...\\FINAL PLAN SET\\ILL-04.dgn							



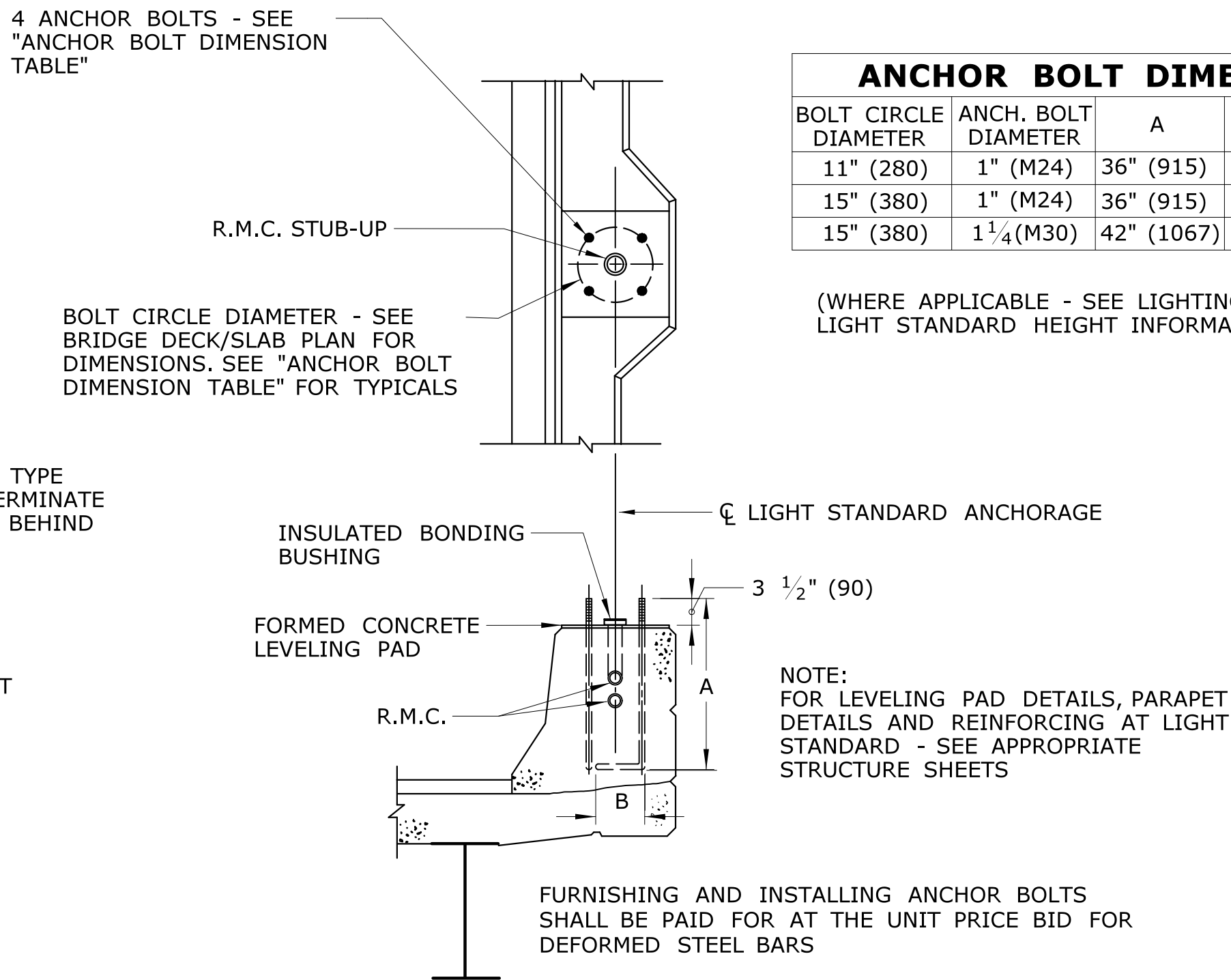
- \* NOTE:  
1) UTILIZE 30° BENDS TO FACILITATE CONDUIT LEAVING WINGWALL AT 24" (610) BELOW GRADE  
2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF THE CONDUIT



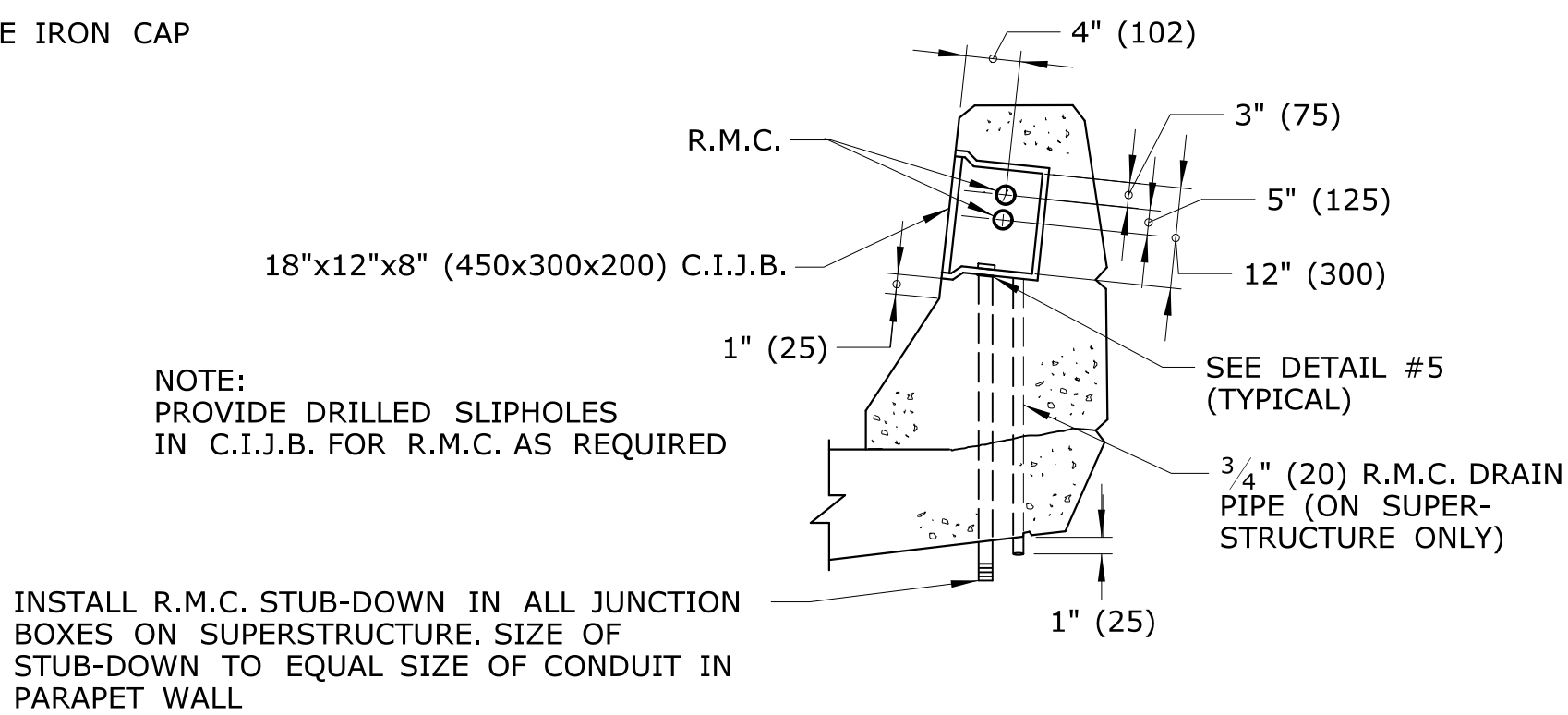
**1) CONDUIT PARAPET TO FILL**



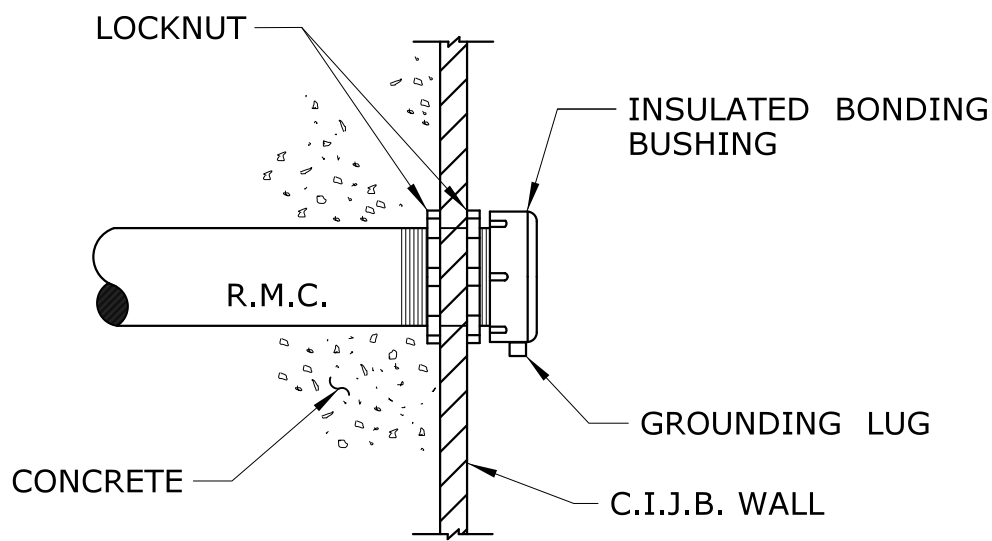
**2) LIGHT STANDARD ON PARAPET WALL**



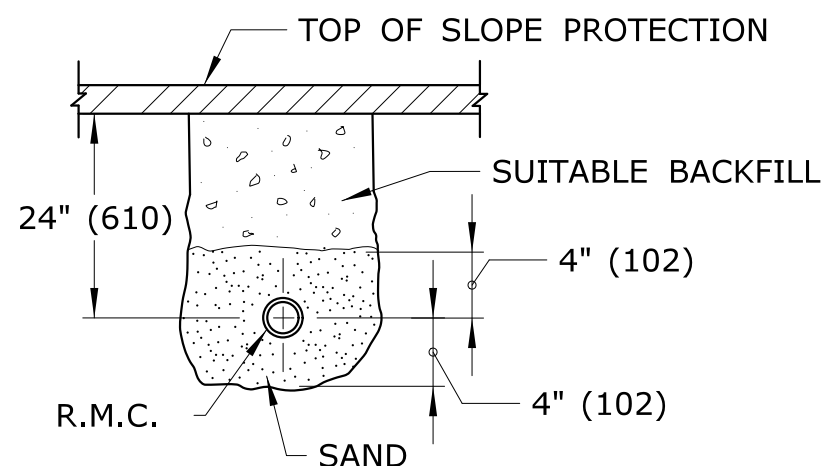
**3) PARAPET TREATMENT AT LIGHT STANDARD**



**4) JUNCTION BOX INSTALLATION**



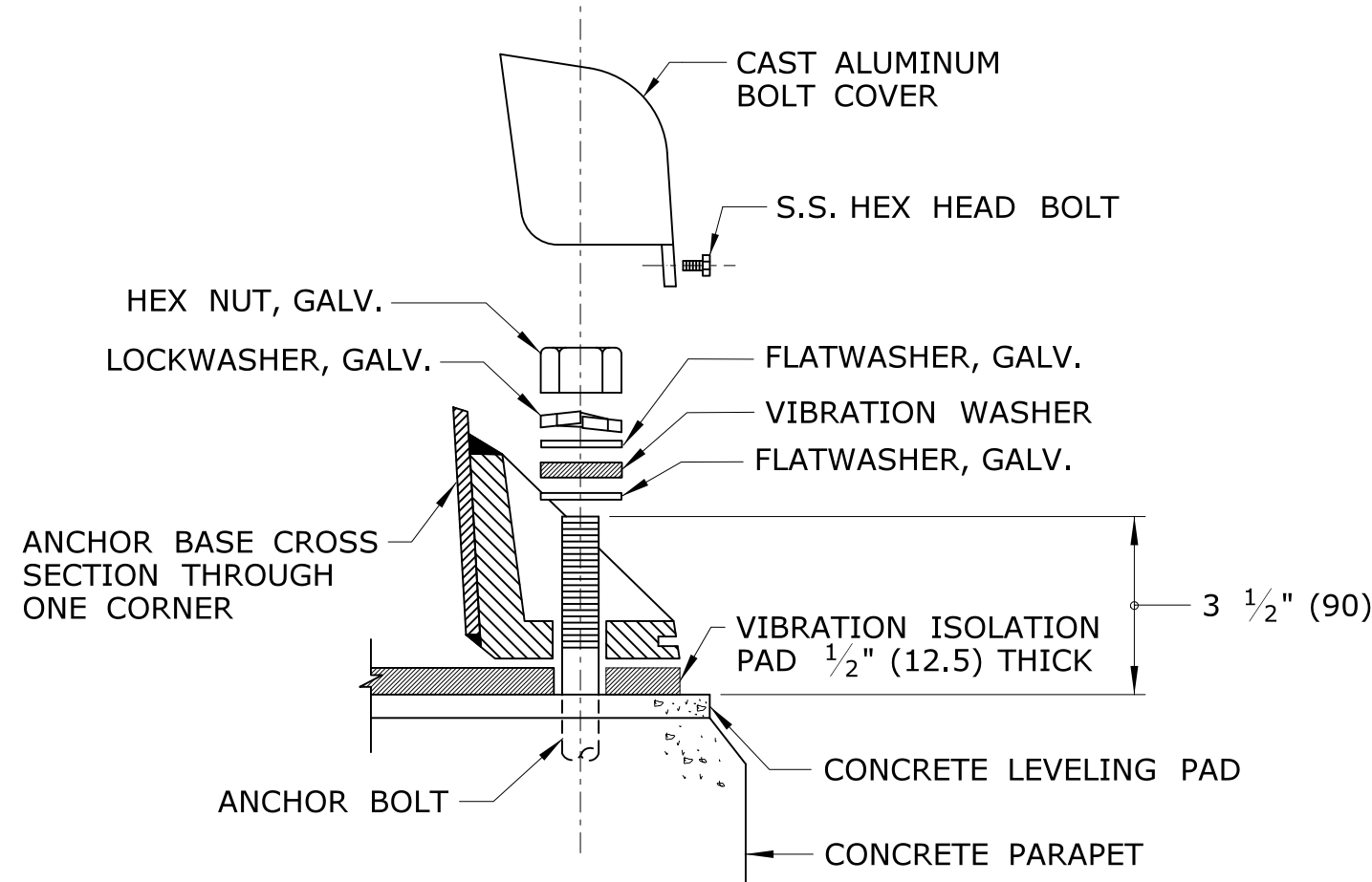
**5) CONDUIT ENTRY INTO CAST IRON JUNCTION BOX**



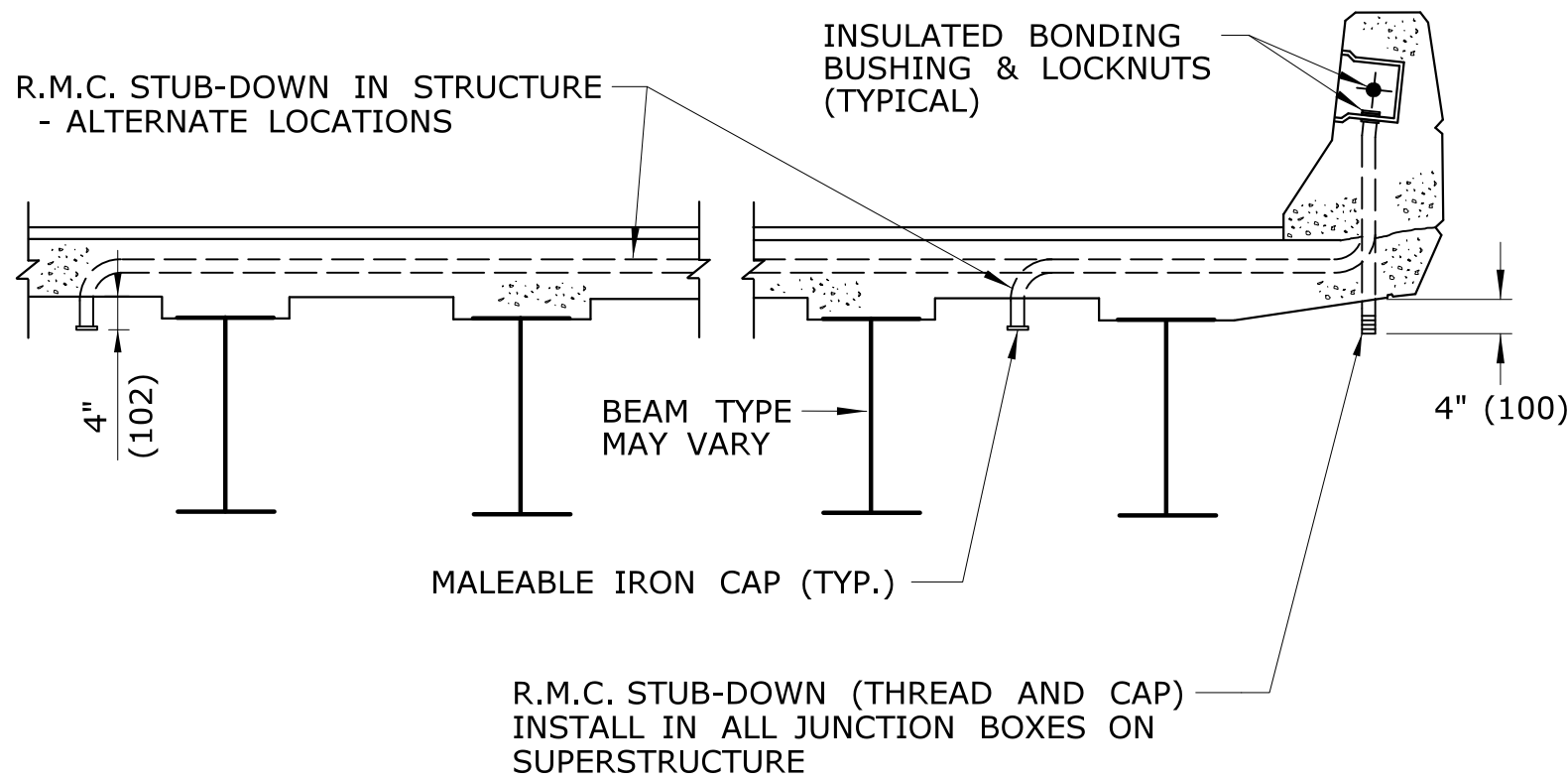
**6) RIGID METAL CONDUIT UNDER SLOPE PROTECTION**

ANCHOR BOLT DIMENSION TABLE				
BOLT CIRCLE DIAMETER	ANCH. BOLT DIAMETER	A	B	TYPICAL LIGHT STANDARD HEIGHT
11" (280)	1" (M24)	36" (915)	4" (102)	30' (11m) - 35' (11m)
15" (380)	1" (M24)	36" (915)	4" (102)	40' (12m)
15" (380)	1 1/4" (M30)	42" (1067)	6" (152)	50' (15m)

(WHERE APPLICABLE - SEE LIGHTING PLANS FOR LIGHT STANDARD HEIGHT INFORMATION)



**7) ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE**



**8) SERVICE TO LUMINAIRE UNDER STRUCTURE**

- NOTES:
- SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
  - DIAMETER OF RIGID METAL CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.
  - R.M.C. STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.
  - INSTALL ONE R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
  - SEE BRIDGE DECK/SLAB PLANS FOR LIGHT STANDARD ANCHORAGE BOLT CIRCLE DIAMETER.
  - USE APPLICABLE DETAILS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 11/14/2014	DESIGNER/DRAFTER: <b>MSB</b> CHECKED BY: <b>JA</b> NO SCALE	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> Filename: ...\\FINAL PLAN SET\\ILL-05.dgn	SIGNATURE/ BLOCK: <b>OFFICE OF ENGINEERING</b> APPROVED BY: ISSUE DATE: 6/6/14	PROJECT TITLE: <b>REPLACEMENT OF BRIDGE NO. 02374 SR 500 TR 805 OVER I-84 TR 831 TR 833</b>	TOWN: <b>EAST HARTFORD</b> DRAWING TITLE: <b>STRUCTURE RELATED ELECTRICAL DETAILS</b>	PROJECT NO. <b>042-304</b> DRAWING NO. <b>ILL-05</b> SHEET NO. <b>01.06.05</b>
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